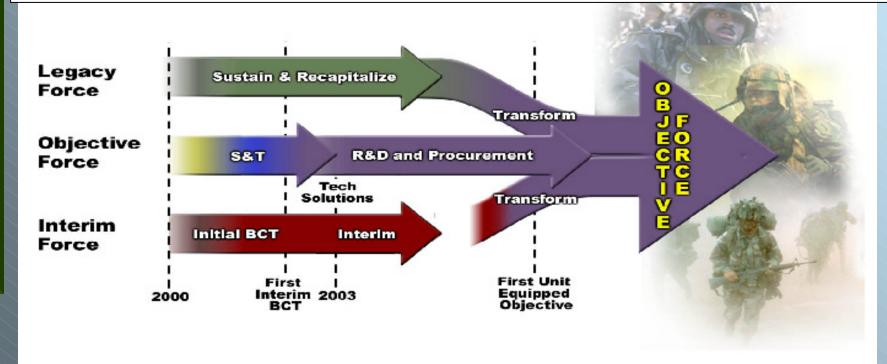


ARMY TRANSFORMATION



The Army will transform as rapidly as possible, maintaining focus on warfighting readiness and taking care of our people. Transformation will entail simultaneous maintenance of a trained and ready force capable of fighting and winning the Nation's wars, transformation of the operational force, and of the institutional Army.

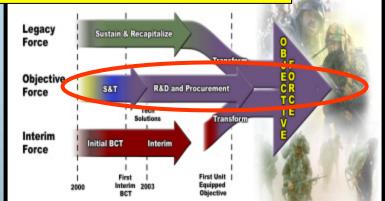


THE OBJECTIVE FORCE

WHAT IT PROVIDES THE WARFIGHTER

The Objective Force ... The Army of Tomorrow

■ A strategically responsive *Army* capable of dominating at every point on the spectrum of operations



A Combat Ready Brigade in 96 hrs, a Division in 120 hrs, and Five Divisions in 30 days.

Full Spectrum Capable --**Optimized for decisive victory** in the close combat of the MTW fight

RESPONSIVE DEPLOYABLE AGILE VERSATILE LETHAL SURVIVABLE **SUSTAINABLE**



Based on MTW

requirements

WHERE WE ARE TODAY

...LEGACY FORCE

MRS-05 (99-00)

Requirements

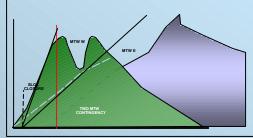
5 1/3 Divisions

2 Corps

CSS

SOF

Intra-theater Lift



5 DIVs / 75 days

Emerging Results

C-17 +

Containerization +

Army Watercraft Fwd Stationed

Intra-Theater Lift

CONUS/OCONUS Infrastructure

Vast improvements

since Desert Storm

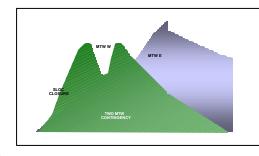
MRS BURU (93-96)

Requirements

5 1/3 Divisions

1 Corps

CSS



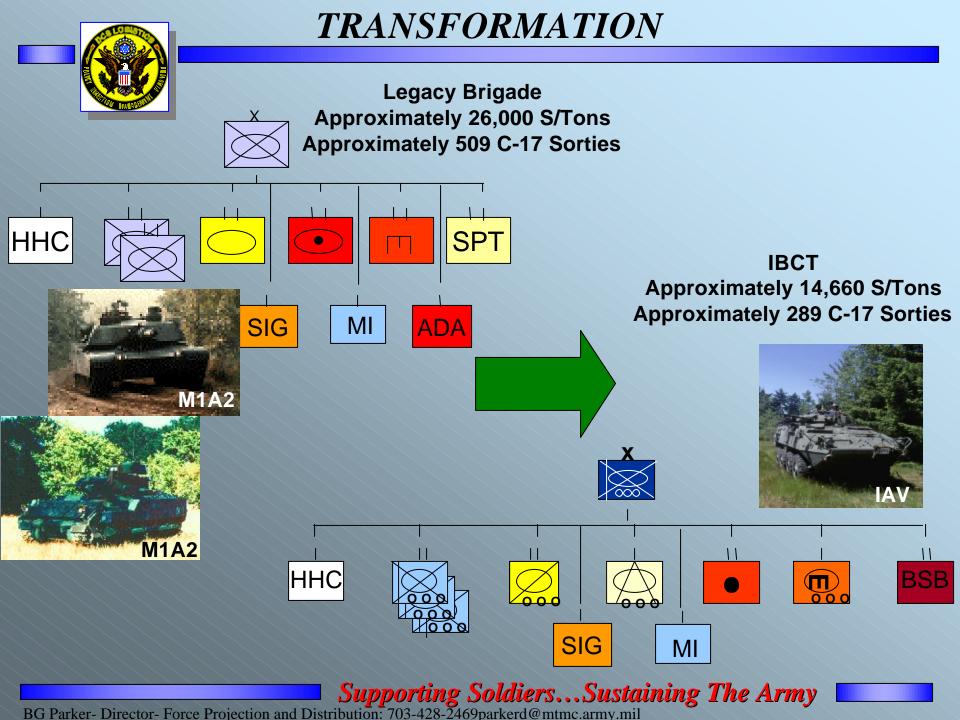
DESERT STORM (90-91

5 DIVs / 75 days

Results	Today
LMSR 19 (20)	16
C-17s 120 (134)	72
Prepo 7 BDEs (8)	7
CONUS Infrastructure	

5 DIVs / 150 Days

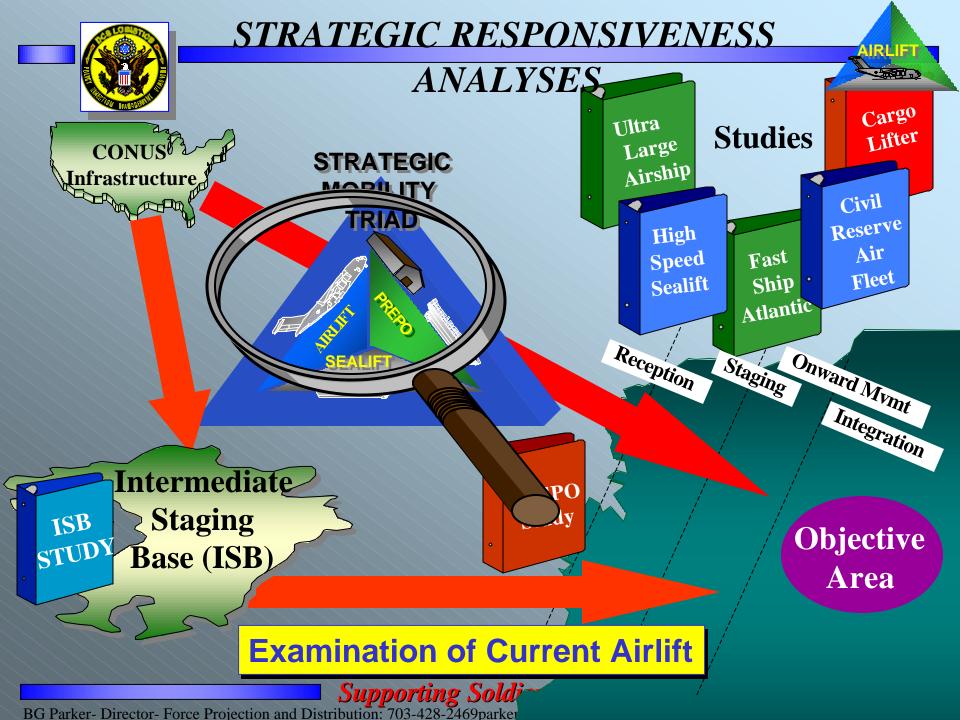
Supporting Soldiers...Sustaining ____



MAJOR STUDIES ANALYZED **Ground Forces** Integrating UltraLarge Basing & for a Rapidly FLOW AAR **Support Concepts:** Airlifter **Employable Joint** Supporting The (ULA) Task Force:1st Week Capabilities Chief's Vision Study Army Transformation (RAND) ND) Wargame CargoLifter White Paper Aerospace (DPM) Study **Quad Tilt** High Speed Expeditionary 0 (CAA) Sealift (HSS) Force (AEF) Rotor Basing & PREPO Study **Fast Ship Atlantic Studies** aMI) Civil Reserve MRS-BURU (RAND) Study Airlift Fleet **PREPO** Pasing & PREPO (CAA)(CRAF) Study **Studies** Mobility (MTMC-TEA) vis, WA Study (CAA) (RAND) Army Requiremen Watercraft Study 200 -Army **Transformation** Study (MRS 05) (LMI) Study MTMC-TEA) Study #50 is a "Study of Studies"

STRATEGIC RESPONSIVENESS **ANALYSES** CONUS Infrastructure STRATEGIC MOBILITY TRIAD Reception Onward Mymt Staging Integration Intermediate **PREPO Staging** Study ISB **Objective** STUDY Base (ISB) Area **Need to Address the End to End Process**

Supporting Sold
BG Parker- Director- Force Projection and Distribution: 703-428-2469parker



AIR MOBILITY FORCE STRUCTURE









C-5 C-17 KC-135







C-141 KC-10 C-9 C-130

Civil Reserve Air Fleet



- PAX - Cargo
- Aeromed

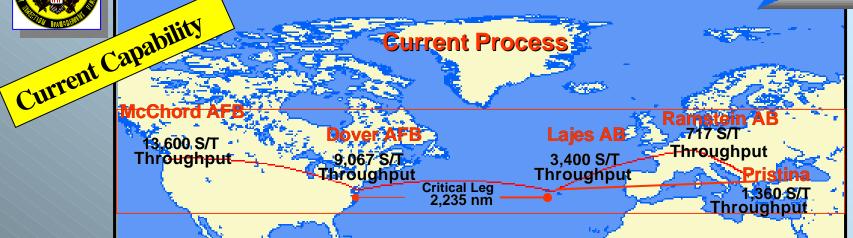


AMC and AMC-gained aircraft (excludes training, depot, and theater aircraft)



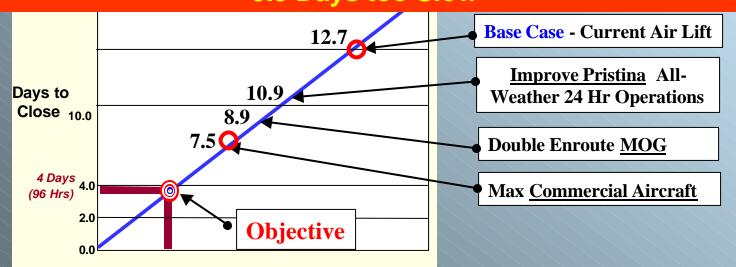
IBCT CURRENT AIRLIFT STUDY





Closure with Today's Best Aircraft & Infrastructure Mix is 3.5 Days too Slow







ULTRA LARGE AIRLIFTERS (ULAs)



Future Capability?

Large Capacity

- Altitude Limited
- Relatively Slow
- Technology Risks
- Commercial Risks

Sky Cat (United Kingdom)



Cargo Lifter (Germany)



USABLE CARGO COMPARTMENTS





9' high





18' wide 12' high fwd of wing 14' high aft of wing









Cargo Lifter 160 164' long

26' wide 26' high **176 STON**

ULAs Offer Quantitative Increase in Volume



Sky Cat 1000

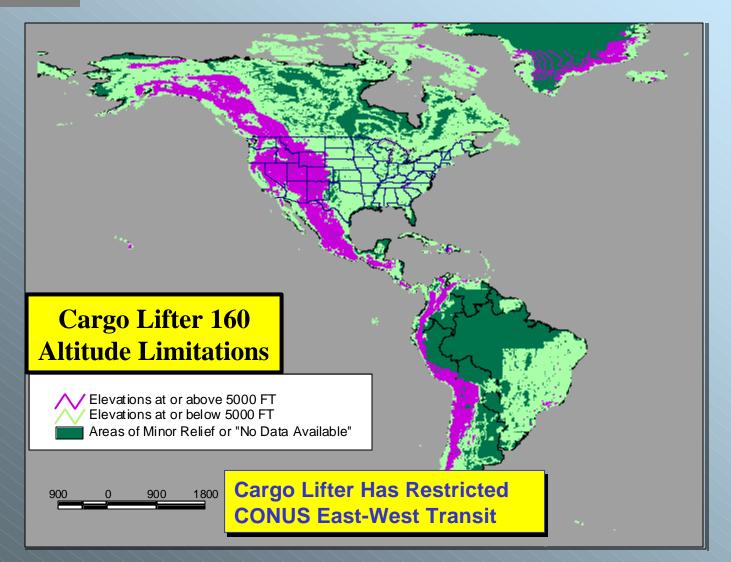
262' long

40' wide

26' high

715 STON

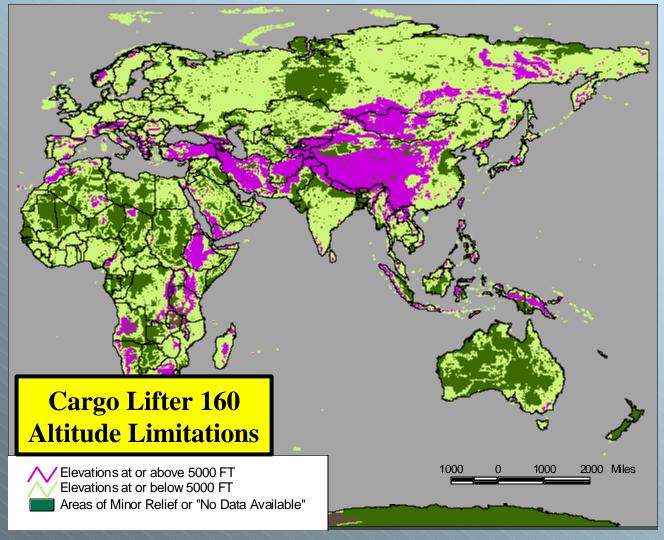
WESTERN HEMISPHERE ELEVATIONS

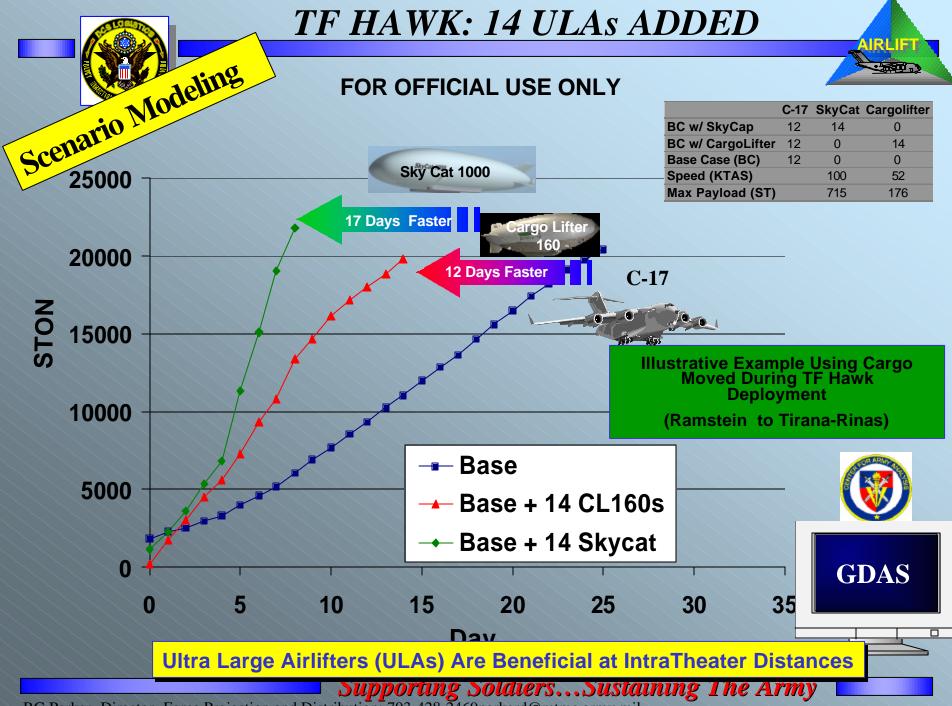


WORLD-WIDE ELEVATIONS





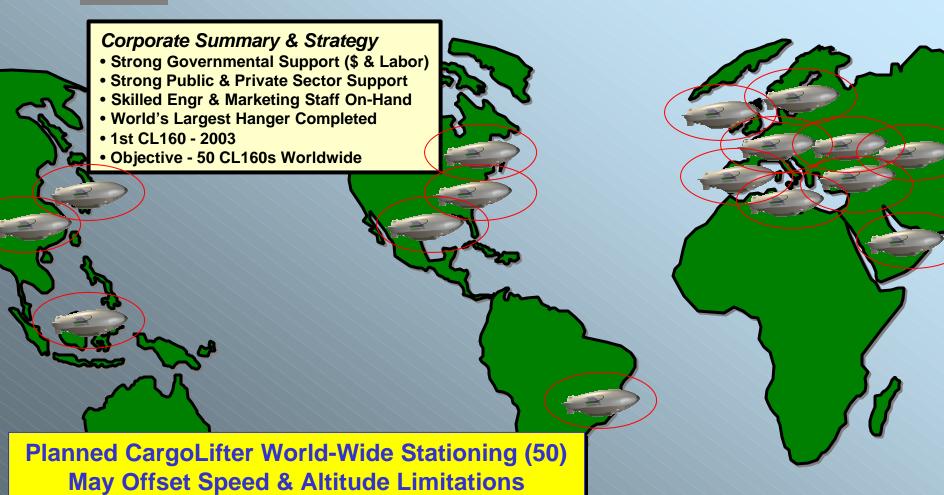




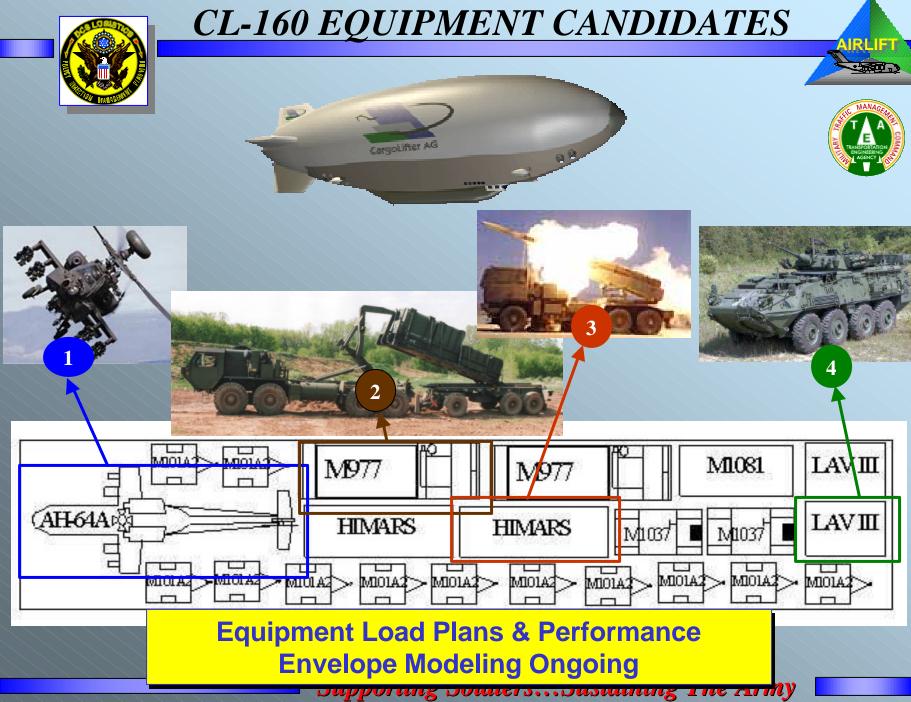


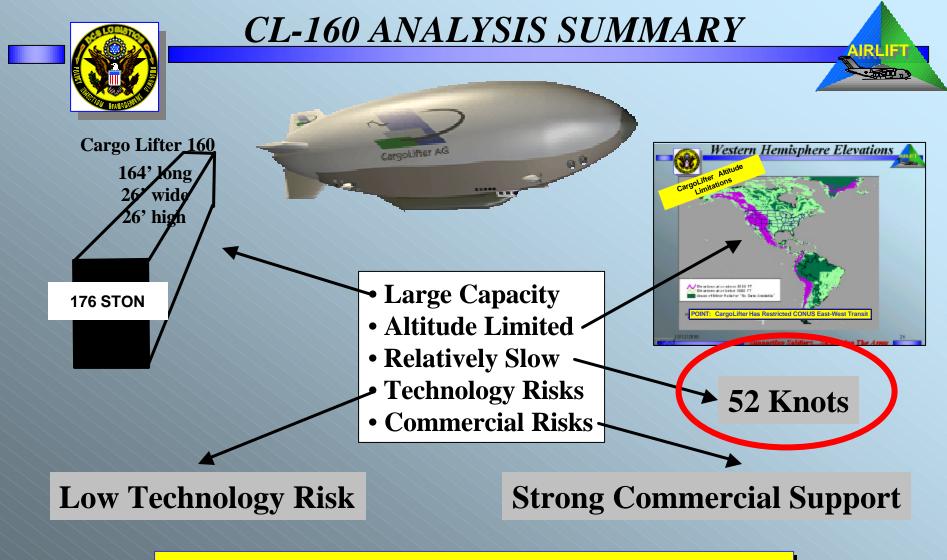
CARGO LIFTER WORLD-WIDE STATIONING





CL-160 Qty 1 5 9 13 17 21 25 29 33 37 41 45 49 53 Year 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016





Cargo Lifter Offers Near Term, Low Risk IntraTheater Capability



BG Parker- Director- Force Projection and Distribution: 703-428-2469parker

STRATEGIC SEALIFT TODAY





76

Ready Reserve Fleet

Float-On/ Float-Off/ Heavy Lift Vessels



Fast Sealift Ship



Large Medium Speed Roll-On/Roll-Off (LMSR) Vessel

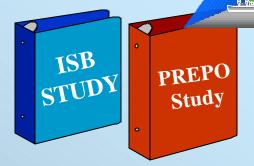


JERVIS BAY TODAY

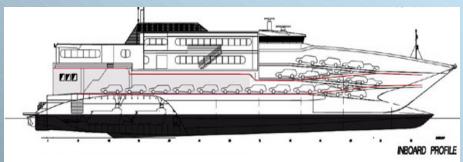








Displacement 250 Long Tons (835 lightship) Length 284 feet Beam 85.2 feet (overall) 14.2 feet (hulls) Draft 11.8 feet



Max Sustained Speed 43 Knots

Capabilities 600 Troops with Gear + 200 Commercial sized cars Range 1000 Nautical Miles fully loaded.

1 Sailing delivers 4.5 C5 or 6 C17 equivalent loads

Loading/Discharge two 12 meter access ramps to facilitate stern loading

Berth Discharge Rates < 1 Hour

In-Stream discharge performed in Dili, East Timor

Supported E. Timor Military Operations.....including JLOTS

HIGH SPEED SEALIFT TODAY



HIGH SPEED SEALIFT (HSS)



Future Capability?

- Small to Medium Sealift Capability
- Shallow Draft
- Variable Range
- Technology Risks
- Commercial Risks

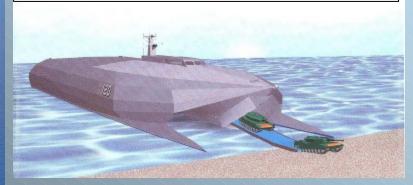


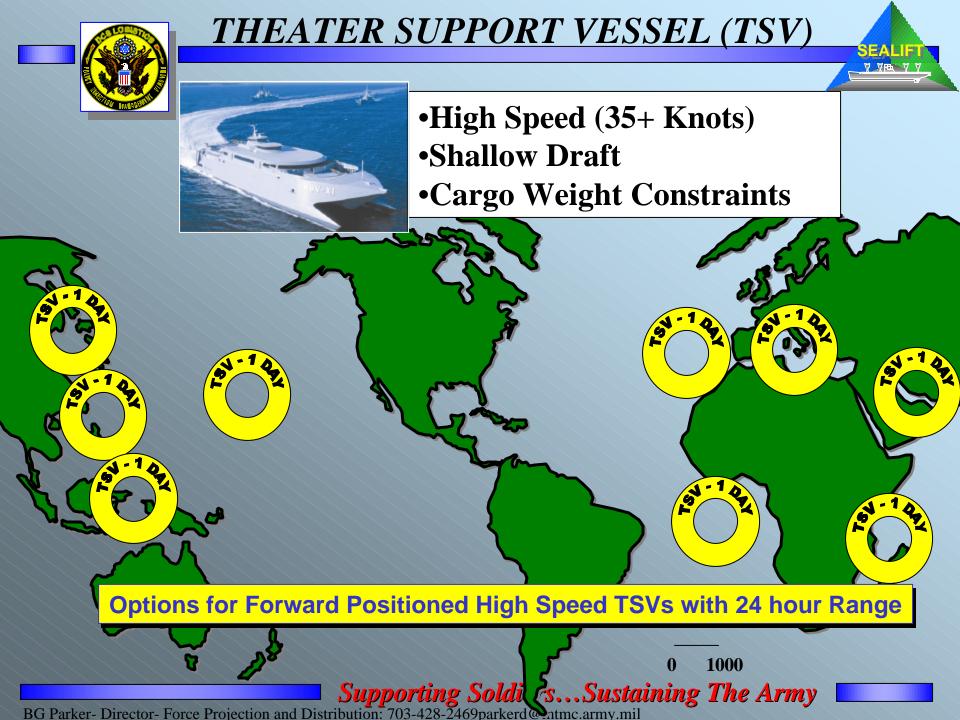


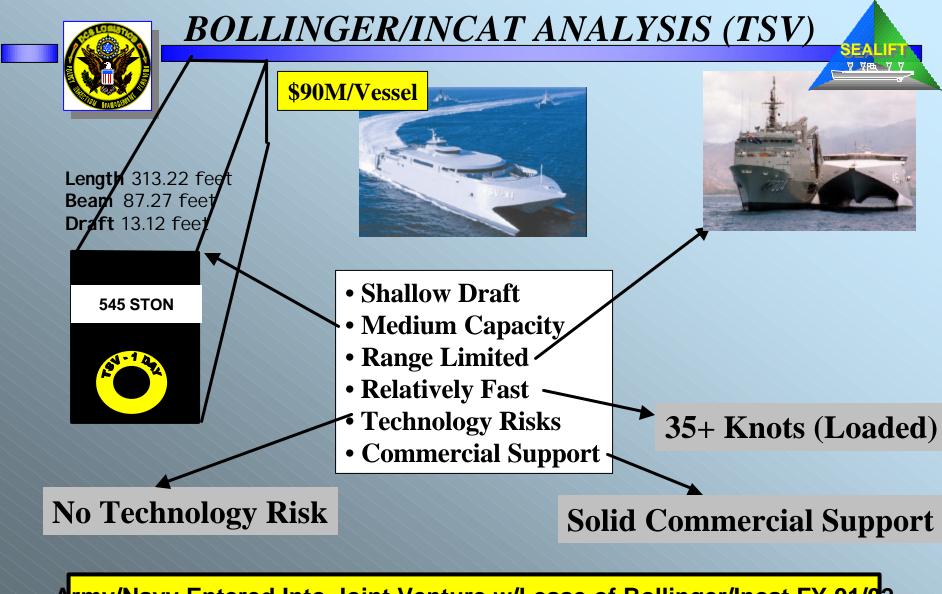
Harley Surface Effect Ships (USA)



Proposed Shallow-Draft HSS







Army/Navy Entered Into Joint Venture w/Lease of Bollinger/Incat FY 01/02

TSV offers Near Term, Low Risk Capability

96 METER LAYOUT





Lease **Partners**

U.S. Army



U.S. Navy



U.S. M.C.

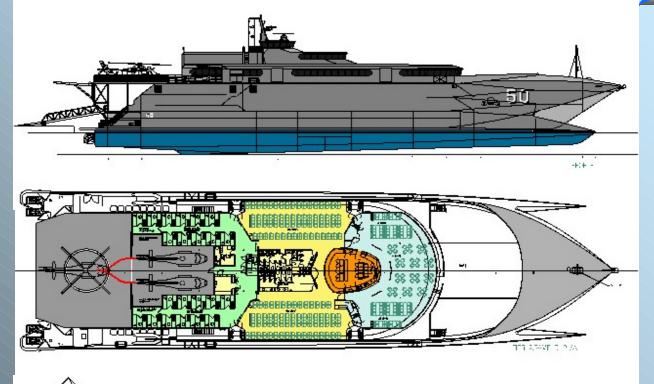


U.S. TRANSCOM



U.S. C.G.

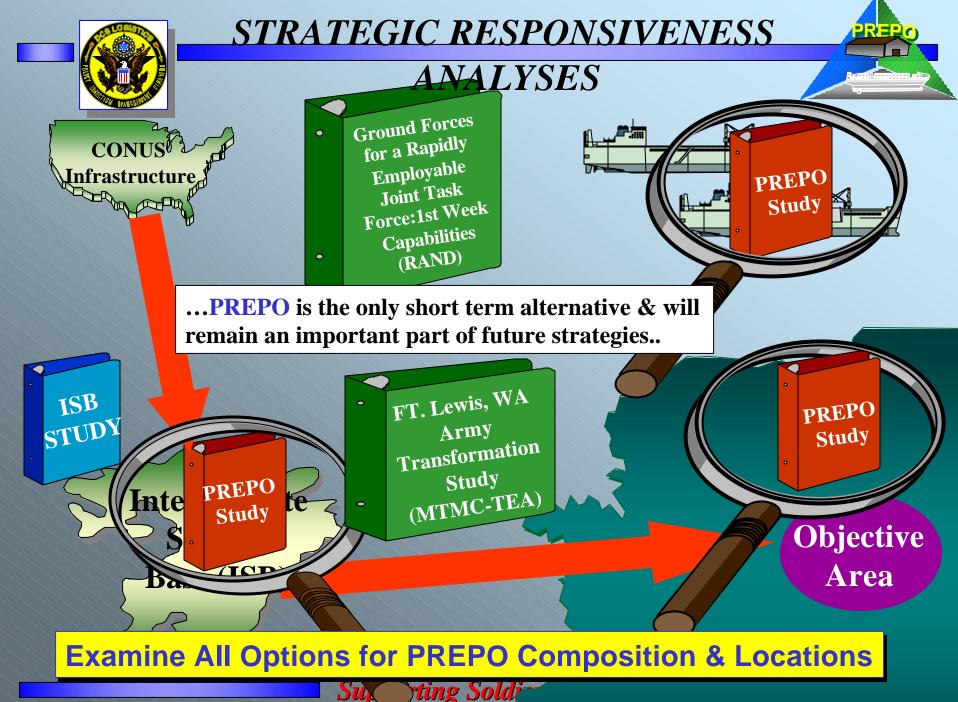




Ame 2 3 Military Military Military Market Market Market

Capabilities

- 350 Soldiers
- 550 STONs
- 1000-1200 NM Range
- 35+ Knots



ARMY PREPOSITIONED STOCKS





APS-2

BeNeLux: 2X1 BDE Set (2)
5 OP Project Stocks
Italy: 2X2 BDE Set
3 OP Project Stocks

Norway: 155 SP FA BN

APS-4

Korea: 2X1 BDE Set 5 OP Project Stocks Sustainment Stocks Ammo/Equip--Stocks for Allies

> For Issue to Deploying Army Units

Equip & Supplies in Pre-Configured BDE & Unit Sets Plus Sustainment and Operational Project Stocks

APS-3

APS-1

CONUS: 11 OP Project Stocks

Sustainment Stocks

Afloat: 2X2 BDE Set
CSS Unit Sets (FY99-00)
5 OP Project Stocks
Sustainment Stocks
15 Ships by FY01 (13 presently)
1X1 BDE Set by FY01

Stored in

Stored in Strategic Locations WorldWide

APS-5

Kuwait: 2X1 BDE Set
Sustainment Stocks
Qatar: 2X1 BDE Set
DIV Base - FY00-01
Bahrain: 1 OP Project (Hosp)

Sustainment Stocks



CAPABILITIES OF ARMY WATERCRAFT

Joint Logistics Over The Shore (JLOTS)



- Instream discharge
- Through Sea State 3

Current In-Stream



2 LMSRs in the Stream

Future In-Stream







Intra-Theater Movement



- Heavy Battalion TF
- Sustainment 340 20' containers

Port Opening



- Recovery and Salvage Opns
- Stand Alone or Support HN

By- Pass Battlefield Congestion

400 miles in 40 hours

Recover, Open & Operate Damaged or Degraded Ports

Army Watercraft Support All Phases of Deployment & Sustainment

THREE TYPES OF PORTS

"...port denial is one of the most likely early scenarios."

Mobility Requirements Study



Fixed Port

Army Watercraft **Supports All Three Types**

nti-Access **Mitigation**

Unimproved Port (Denied/Degraded Port)

Bare Beach (No Port)

THEATER SUPPORT VESSEL (TSV)

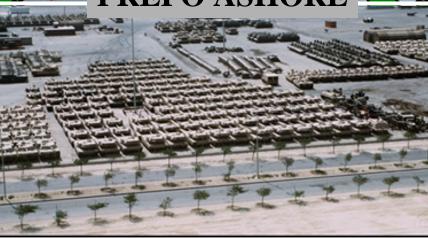




TSV

- •High Speed (35+ Knots)
- •Shallow Draft
- •Cargo Weight Constraints









Adding TSV to Forward Deployed Afloat/Ashore PREPO Provides Increased Options

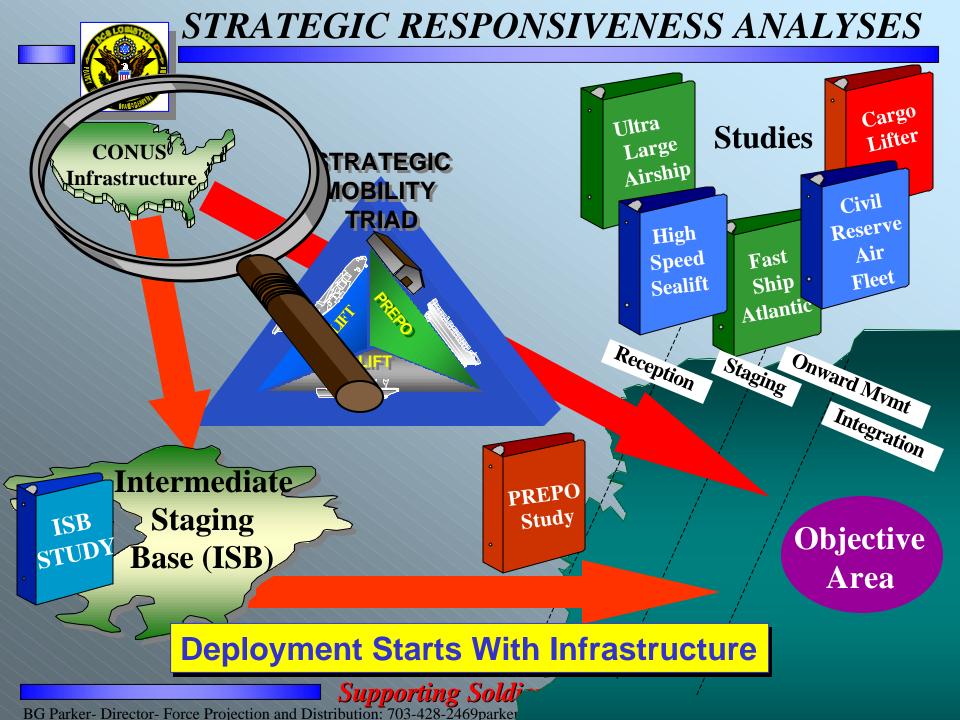
POSSIBLE PREPO STRATEGY

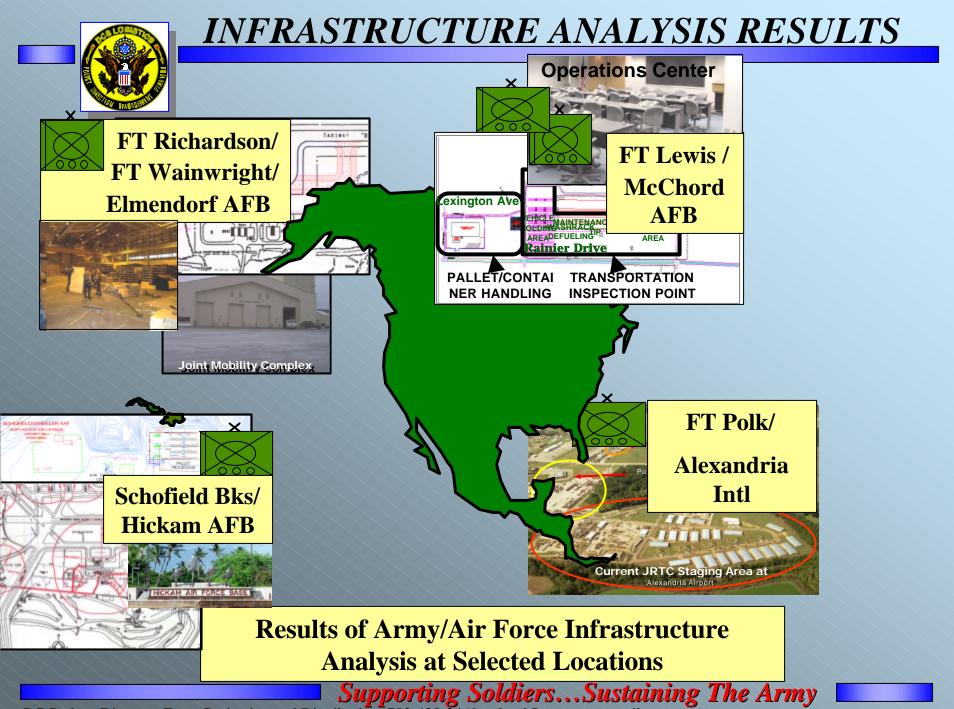






Prepositioning Can Be More Responsive With Future Lift





BG Parker- Director- Force Projection and Distribution: 703-428-2469parkerd@mtmc.army.mil

FINDINGS



- Multiple Studies = Consistent Results
- **Army Reliant on Strategic Mobility Triad**
- Past/Current Operations Reflect Need to **Improve Strategic Responsiveness**
- Army Transformation Goals Dependent on **New Technologies**
- Concurrent Improvements in Distribution **Processes and Command and Control Necessary to Achieve Strategic** Responsiveness and Effectiveness

SUMMARY



The Army is Transforming.. Versatile, lethal and more deployable

Strategic lift improvements are on-going... **Emerging technologies provide reduced** risk and increased strategic responsiveness

> Infrastructure capabilities have priority and are improving

